



# NOAA Coral Reef Conservation Program

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## Projects funded in FY 2006

Project ID	Project Title	Principal Investigator	NOAA Office	Abstract	Project Location	Project Year of Inception
<b>Coral Reef Conservation Grants</b>						
1413-06	General Coral Reef Conservation Grants	Andy Bruckner	NMFS / Habitat Conservation - HC	The General Coral Reef Conservation Program is a matching grants program open to non-governmental organizations, institutions of higher education, for profit businesses and resource agencies in the Freely Associated States.	Florida, Flower Gardens Bank, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2004
1227-06	Coral Reef Conservation Fund	Roger Griffis	NOS / Office of Ocean and Coastal Resource Management - OCRM	The Coral Reef Conservation Fund is a joint NOAA - National Fish and Wildlife Foundation grants program to promote public-private partnerships that leverage NOAA funding with non-NOAA resources to provide solutions to specific problems in coral reef areas (and associated reef habitats). The program will continue to solicit and fund high quality coral reef conservation projects in FY06.	All regions	2001
1205-06	State and Territory Coral Reef Management Grant Program	Bill Millhouser	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project proposes to continue grant funding to support State and Territory coral reef conservation initiatives and build capacity to manage impacts and uses of coral reef ecosystems and associated coral reef fisheries. For FY06, the management grant program continues to provide core funding of \$1.8 million and will be expanded to include \$1.5 million appropriated specifically for LAS support and project implementation.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Guam	2001
1336-06	Coral Reef Ecosystem Research Grants	Kimberly Puglise	OAR / National Undersea Research Program - NURP	The Coral Reef Ecosystem Research Grants is part of the NOAA Coral Reef Conservation Grants Program. The research grants are administered by NOAA's Undersea Research Program to fund coral reef research projects in the Caribbean, Florida, Gulf of Mexico, Hawaii, and the Western Pacific.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2004
1226-06	Projects to Improve or Amend Coral Reef Fishery Management Plan	Andy Bruckner	NMFS / Habitat Conservation - HC	Projects to Improve or Amend Coral Reef Fishery Management Plan provides funding to U.S. Fishery Management Councils with coral reef resources within their jurisdictions.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam	2001
1395-06	International Coral Grants Program	Eileen Alicea	NOS / Office of Response and Restoration - ORR	The International Coral Grant Program has four project categories designed to continue building on the grant themes of FY06: Watershed Management in the Wider Caribbean, Brazil, and Bermuda; Regional Enhancement of MPA Management Effectiveness; National Systems of MPAs in the Wider Caribbean, Bermuda, Brazil, and SE Asia; Regional Socio-Economic Training and Monitoring in Coral Reef Management in the Wider Caribbean, Brazil, Bermuda, East Africa, South Pacific, and SE Asia.	Federated States of Micronesia, Marshall Islands, Palau, East Africa, East Asia/South East Asia, Latin American/Caribbean, Middle East/Indian Ocean, Pacific Other	2002



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1106-06	National Coral Reef Ecosystem Monitoring Program (Grant)	John Christensen	NOS / National Centers for Coastal Ocean Science - NCCOS	This project is conducted to support NOS and its State and Territory Partners in conducting a program to assess, inventory, and monitor US coral reef ecosystem health to support development of periodic national-level reports on the status of US coral reef ecosystems.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2001
1201-06	Coral Management Fellowship	Jan Kucklick	NOS / Coastal Services Center - CSC	This project provides policy and management support to the U.S. Flag Pacific and Caribbean Islands on coral reef issues and offers a professional growth opportunity for highly qualified recipients of bachelor's and master's degrees to learn about coral reef management and a wide range of island management issues.	Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Guam	2003
1352-06	Coral Management Fellowship Extension/LAS project support	Dana Wusinch-Mendez	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project allows support to be provided to each of the 7 USCRTF States and Territories which is either used to support a one year extension of their current coral reef management fellows or support the implementation of one or more LAS projects.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Guam	2004
1995-06	Regional Outreach/Education Workshop Implementation	Alissa Barron	NOS / Office of Ocean and Coastal Resource Management - OCRM	In FY05, two regional capacity-building workshops on strategic outreach and education were held for NOAA regional staff and state/territory agency partners. To build on the foundation of these regional training workshops, this project sets aside funds for continued outreach and education capacity building at the jurisdictional level through more in-depth and intensive follow-up training and implementation assistance specific to local needs.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam	2005
<b>Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve</b>						
1095-06	Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve Operations	Aulani Wilhelm	NOS / Office of National Marine Sanctuaries - ONMS	The Reserve's focus in FY06 continues to be the designation of the NWHI as a national marine sanctuary. The majority of Reserve staff effort is focused on the completion of the DMP/DEIS expected to be released for public review in spring 2006. The Reserve has been in full operation throughout the designation process and efforts continue in FY06 to focus on implementing the ROP in all programmatic areas including research, education and outreach, administration, and field operations.	Hawaii, Northwest Hawaiian Islands	2001
<b>Coral Reef Institutes</b>						
2008-06	National Coral Reef Institute	David Hilmer	NOS / National Centers for Coastal Ocean Science - NCCOS	The primary goal of the National Coral Reef Institute (NCRI) is the protection and preservation of coral reefs through applied and basic research on coral reef assessment, monitoring, restoration, and biodiversity, as well as via training and education. This goal is addressed through multidisciplinary scientific research on coral reef assessment, mitigation, monitoring, and restoration as directed by Congress, as well as through applied engineering, operations, and public education.	Florida, Puerto Rico, US Virgin Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Palau, Latin America/Caribbean, Middle East/Indian Ocean	2003
1454-06	Caribbean Coral Reef Institute	Michael Dowgiallo	NOS / National Centers for Coastal Ocean Science - NCCOS	This project funds research and monitoring activities in Puerto Rico and sustains the Caribbean Coral Reef Institute (CCRI) to carry out such activities in the future.	Puerto Rico	2004
1150-06	Hawaii Coral Reef Initiative Research Program	Michael Dowgiallo	NOS / National Centers for Coastal Ocean Science - NCCOS	The Hawaii Coral Reef Initiative Research Program proposes to sponsor research and monitoring of state coastal reefs that examine linkages between human activity and damage to the reef ecosystem, which in turn, will provide resource managers with information on the most effective and efficient ways to prevent, and possibly reverse, the degradation of coral reef resources.	Hawaii	2002



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<b>Assess and Characterize US Coral Reefs - Coral Reef Ecosystem Integrated Observing System (CREIOS)</b>						
<b>Mapping</b>						
1258-06	Florida Shallow Water Benthic Habitat Mapping	Mark Monaco	NOS / National Centers for Coastal Ocean Science - NCCOS	Produce shallow-water (generally, to depths of approximately less than 40 m) coral ecosystem maps of priority areas in Southern Florida. Use priorities described in the Southern Florida Shallow-water Coral Ecosystem Mapping Implementation Plan, on a year-to-year basis, to acquire source imagery, identify and implement techniques for producing benthic habitat maps identify mapping-related partnership activities, generate maps, validate those maps, and generate final map products.	Florida	2004
1744-06	Seafloor Characterization of the Buck Island Reef National Monument and Puerto Rico	Timothy A. Battista	NOS / National Centers for Coastal Ocean Science - NCCOS	The scientific purpose of the CCMA mission on the NANCY FOSTER is to continue exploring and characterizing nearshore and deepwater habitats (10-1500m) of Puerto Rico. CCMA plans to use the NANCY FOSTER to collect multibeam sonar and ROV video cameras to characterize the type and extent of habitats along the west and southern portion of Puerto Rico a critical fisheries conservation area.	Puerto Rico, US Virgin Islands	2005
10012-06	Multibeam mapping of Pulley Ridge, SW Florida (Substitute for Oculina Banks Mapping)	Andrew David	NMFS / Southeast Fisheries Science Center - SEFSC	Pulley Ridge is a mid-depth carbonate platform off southwest Florida which contains extensive hermatypic coral formations normally found at much shallower depths. The Pulley Ridge formations may be the deepest hermatypic coral reefs in the United States. To date only the extreme southern end of the ridge platform has been mapped. The goal of this project is to extend the mapping coverage northward in hope of determining the full extent of the reef formations.	Florida	2006
1217-06	Benthic Habitat Mapping and Characterization - Northwestern and Main Hawaiian Islands	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	The goal of the project is to locate, characterize, and map the benthic habitats of coral reef ecosystems in the Northwestern Hawaiian Islands (NWHI) and the Main Hawaiian Islands (MHI). It supports the mapping requirements established by the U.S. Coral Reef Task Force in the National Action Plan to Conserve Coral Reefs and will help define Essential Fish Habitat (EFH) and Habitat Areas of Particular Concern (HAPC) as mandated by the Magnuson-Stevens Fishery Conservation and Management Act.	Hawaii, Northwest Hawaiian Islands	2001
1084-06	Benthic Habitat Mapping and Characterization - American Samoa and PRIA	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	The goal of the project is to locate, characterize, and map the benthic habitats of coral reef ecosystems in American Samoa and the U.S. Pacific Remote Island Areas (PRIAs). It supports the mapping requirements established by the U.S. Coral Reef Task Force in the National Action Plan to Conserve Coral Reefs and will help define Essential Fish Habitat (EFH) and Habitat Areas of Particular Concern (HAPC) as mandated by the Magnuson-Stevens Fishery Conservation and Management Act.	American Samoa, Pacific Remote Island Areas, including U.S. Line and Phoenix Islands, Wake Island and Johnston Island.	2002
1398-06	Benthic Habitat Mapping and Characterization - CNMI and Guam	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	The goal of the project is to determine, characterize, and map the benthic habitats of coral reef ecosystems in the Commonwealth of the Northern Mariana Islands (CNMI) and Guam. It supports the mapping requirements established by the U.S. Coral Reef Task Force in the National Action Plan to Conserve Coral Reefs and will help define Essential Fish Habitat (EFH) and Habitat Areas of Particular Concern (HAPC) as mandated by the Magnuson-Stevens Fishery Conservation and Management Act.	Commonwealth of the Northern Mariana Islands, Guam	2003
1129-06	Main 8 Hawaiian Islands Benthic Habitat Mapping	Timothy A. Battista	NOS / National Centers for Coastal Ocean Science - NCCOS	Generate detailed benthic habitat maps for the main 8 Hawaiian Islands. Effort includes gathering new digital imagery, processing and georeferencing imagery, interpreting georeferenced imagery, and map production for the 8 main Hawaiian Islands for Phase 2 and 3 of the project.	Hawaii	2001
<b>Monitoring</b>						
1101-06	Coral Reef Watch - CREWS component (new name: Integrated Coral Observing Network)	James Hendee	OAR / Atlantic Oceanographic Meteorological Laboratory - AOML	The Integrated Coral Observing Network (formerly known as CREWS-Coral Reef Watch) is designed to be a collection of in situ hourly-recording meteorological and oceanographic monitoring stations at all major US coral reef areas, and select foreign reef areas, connected through common data processing, information synthesis (via expert system suite) and computer facilities via the Web at AOML, and utilizing unique software to analyze thousands of permutations of parameters in near real-time.	Puerto Rico, US Virgin Islands, Northwest Hawaiian Islands, Latin America/Caribbean, Pacific Other	2001



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1195-06	Coral Reef Watch - Satellite	Mark Eakin	NESDIS / Office of Research and Applications	NESDIS/Coral Reef Watch (CRW-Satellite) operationally delivers a variety of cutting-edge coral reef monitoring products at global spatial scales to managers, scientists, and the general public. CRW will expand and refine the use of satellite, paleoclimatic, and in situ data at targeted reef locations, domestic and worldwide, to provide timely, accurate, and reliable monitoring information on the status of coral reefs, and to provide early warnings to changing conditions.	All regions	2001
10188-06	Satellite Tools and Information Training in the Caribbean	Mark Eakin	NESDIS / Office of Research and Applications	N/A	US Virgin Islands	2006
1219-06	Coral Reef Watch-Physical and Biological Monitoring of U.S. Pacific Islands	Russell Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	In-situ instrumentation deployed at long-term observing system sites in the Main and Northwestern Hawaiian Islands, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Pacific Remote Island Areas, provide time-series datasets which are utilized by researchers, resource managers, and stakeholders for the near real-time monitoring, alerting, modeling, and reporting of physical environmental conditions which influence the condition of coral reef ecosystems.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, U.S. Pacific Remote Island Areas, including Line Islands (Baker, Howland), Phoenix Islands (Jarvis, Palmyra, Kingman), Wake Island, and Johnston Atoll.	2001
1221-06	Pacific Reef Assessment and Monitoring Program (Pacific RAMP): Biennial monitoring for the U.S. Pacific Islands and Atolls	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	For the past 5 years, the Coral Reef Ecosystem Division has conducted biennial multidisciplinary monitoring of reef ecosystems at 55 U.S. Pacific islands, atolls, and reefs. Spatial and temporal monitoring of biological populations and oceanographic processes allow an unprecedented integrated baseline ecosystem understanding of healthy and impacted reefs. Long-term monitoring will enable reef managers to detect and act on significant natural or anthropogenic changes to these ecosystems.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, U.S. Pacific Remote Island Areas, including Wake Island, Johnston Atoll	2001
1417-06	Caribbean Coral Reef Ecosystem Monitoring	Mark Monaco	NOS / National Centers for Coastal Ocean Science - NCCOS	This project represents ongoing monitoring activities designed to quantify abundance and distribution of reef fishes, lobster, and conch, as well as to evaluate habitat utilization patterns of reef fishes throughout ontogeny to provide information necessary to define and evaluate the efficacy of MPA's, EFH, etc. Benthic habitats and water quality components of the ecosystem are also monitored at each survey site. Sites are selected throughout 400 km <sup>2</sup> of US Caribbean nearshore waters.	Puerto Rico, US Virgin Islands	2004
1064-06	Assess and Monitor Coral Reef MPAs	James Bohnsack	NMFS / Southeast Fisheries Science Center - SEFSC	We continue monitoring of reef habitat and reef fish composition and abundance on FL's coral reef tract. Data are used to assess habitat and population trends, ontogenic habitat associations; and ecosystem responses to anthropogenic impacts including Everglades restoration and management measures. We assess effectiveness and impacts of marine reserves established in 1997 and other management zones in the Florida Keys and support Florida Local Action Strategies in southern Florida.	Florida	2002
1056-06	The Status and Exploitation of Reef Resources on Navassa Island	Margaret Miller	NMFS / Southeast Fisheries Science Center - SEFSC	This project provides reef and some fishery assessment for Navassa Island. A bi-annual schedule has been established for monitoring cruises to assess reef fish and benthic assemblages, refine observations providing a benthic habitat map, and make qualitative observations on fishing activity. Such efforts address priority areas of ecosystem monitoring (biotic), and fulfill an important monitoring gap for US Caribbean coral reefs.	Navassa (Caribbean Islands National Wildlife Refuge-DOI)	2002
1922-06	Coral Reef Rapid Assessments, Monitoring, and Modeling in the Florida Keys National Marine Sanctuary	Brian Keller	NOS / Office of National Marine Sanctuaries - ONMS	This project evaluates community structure and factors affecting coral reef change at multiple spatial scales. Fully protected marine zones and reference sites are sampled using rapid assessment protocols. Work for FY06 includes: 1) Dry Tortugas surveys; 2) Acropora surveys (upper Keys); 3) assistance to coral bleaching and resilience projects (pending time and funding); 4) coral recruitment work; and 5) data management and analyses, report writing, presentations, and publications in journals.	Florida	2005



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10051-06	US Caribbean Comprehensive Coral Reef Ecosystem Assessment and Monitoring	Ron Hill	NOS / National Centers for Coastal Ocean Science - NCCOS	The project is a joint line office initiative supported by the CRCP. The goal is to document and understand resource conditions across coral reef ecosystems in the US Caribbean by additional coordination of existing or planned monitoring and assessment by federal, territorial, commonwealth, academic, and private sector partners. By documenting existing and planned activities improved and consistent monitoring may be implemented in future years, especially in critical areas not currently studied.	Puerto Rico, US Virgin Islands	2006
2172-06	GCRMN/FAS Regional Coordination and Training	Shauna Slingsby	NMFS / Habitat Conservation - HC	This project supports monitoring and coordination activities in the Freely Associated States of Micronesia. FY06 funds support ongoing training for coral reef monitoring activities.	Federated States of Micronesia, Marshall Islands, Palau	2006
<b>Data Dissemination</b>						
1048-06	Coral Reef Information System	Parmesh Dwivedi	NESDIS / National Oceanographic Data Center	The NOAA Coral Reef Information System (CoRIS) provides Web-based, single-point access to NOAA coral reef data and information. It uses data documentation to describe NOAA coral data, to link to online products and publications, and to preserve instrument and procedure changes that are so important in long-term monitoring data sets. In 2006 CoRIS will work with the CREIOS team to integrate synthesized products, and develop formal procedures to archive data in NOAA national data centers.	All regions	2002
1082-06	Develop and Produce Oceanographic Atlases of the U.S. Pacific Islands	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	An Oceanographic Atlas of the Pacific is being developed to provide resource managers, policy makers, scientists, and other stakeholders with user-friendly access and visualization of spatial and temporal data on oceanographic and meteorological conditions influencing the health of coral reef ecosystems. The Atlas, which will be available via hard copy and an interactive Web site, will provide basin-wide datasets as well as high-resolution regional datasets for US interest areas in the Pacific.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau, U.S. Remote Pacific Islands of Howland, Baker, Jarvis, Palmyra, Kingman, Johnston, and Wake.	2002
<b>Reduce Impacts of Coastal Uses</b>						
<b>Restore Injured Habitats</b>						
1070-06	Effectiveness of coral reattachment in recovery of reef habitat following grounding of the M/V Fortuna Reefer at Mona Island	Ron Hill	NMFS / Southeast Fisheries Science Center - SEFSC	This research is monitoring the success of the NOAA-led coral reef restoration that followed the 1997 grounding of the M/V Fortuna Reefer on Mona Island (a PR reserve) using corals and fish as indicators of habitat function and quality. It is coordinated with on-going research to monitor coral disease and its effects on reef ecology and reef fish assemblages. Integration with Caribbean Monitoring Initiative is anticipated.	Puerto Rico	2002
1066-06	Ecological Approach to Coral Reef Restoration	Margaret Miller	NMFS / Southeast Fisheries Science Center - SEFSC	This ongoing project is undertaking tool development for enhancing broadcast-spawning coral populations via larval culture/seeding and related investigations on early life history of corals which may provide additional management strategies to enhance coral recruitment success. These activities address specific priority areas for the draft Florida LAS and the National Marine Sanctuaries program.	Florida	2006
<b>Reduce Impacts of Recreational Overuse</b>						
10015-06	Fisheries and Coral Protection at CNMI Recreational Dive Sites	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	Create a self-sustaining program to install and maintain environmental protection facilities (ropes, buoys, and public awareness) at key recreational dive sites in the CNMI. Ropes help divers avoid damage to the reefs. Dive buoys avoid the need for boats to drop anchors on the reefs. Funds are used to: inventory and assess all major dive sites on Rota, Tinian, and Saipan; install or upgrade existing equipment; develop a self-sustaining maintenance system with a public-private oversight board	Commonwealth of the Northern Mariana Islands	2006



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10084-06	Hawaii Carrying Capacity Support	Meghan Gombos	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project supports the development of a carrying capacity tool to be used in Hawaii at specific sites that are heavily visited by recreational users. This project supports the recreational use LAS's that are in development in both Guam and Hawaii.	Hawaii	2006
10042-06	From the Beach to the Reef: More than just sand	Lisamarie Carrubba	NMFS / Southeast Region - SER	This project is a continuation of an FY05 pilot project within the facilities of the Boqueron Public Beach managed by the Puerto Rico National Parks Company. The campaign is aimed at informing the general public that the public beaches of Puerto Rico are more than just sand being associated with coral reefs, seagrass beds, lagoons, mangrove forests and other coastal wetlands. We will expand the campaign to include the most visited public beaches with the most important coral reef resources.	Puerto Rico	2006
<b>Reduce Impacts of Coastal Development</b>						
10069-06	Coastal Construction Best Management Practices and Cumulative Impacts in Coral Reef Fish Nursery Habitat	Jocelyn Karazsia	NMFS / Southeast Region - SER	This project will evaluate coastal construction and effects on essential fish habitats, primarily reef fish nursery habitats. In FY06 this project maps historical trends in nursery habitat presence (Palm Beach County, FL) and compiles literature on linkages between nursery habitats and reef fisheries productivity.	Florida, Puerto Rico	2006
<b>Reduce Impacts of Maritime Activities</b>						
1408-06	Protecting Corals, Saving Ships	Kathryn Ries	NOS / Office of Coast Survey - OCS	Protect coral reef habitats from physical destruction and pollution from ships by integrating coral, marine protected areas (MPA), and other pertinent environmental features and related information into electronic navigation safety systems (e.g. Electronic Navigation Charts or ENCs) and associated maritime technologies to protect marine resources and improve safety of navigation and to provide important information for both resource managers and navigators.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, Latin America/Caribbean	2004
1022-06	Abandoned Vessel Inventory Project - Continued database development	Doug Helton	NOS / Office of Response and Restoration - ORR	Funding supports general database/project maintenance costs including purchasing data or technical support and minor travel and meeting costs. The AVP also works with USFWS and NMSP among others to develop a Grounded Vessel Contingency Plan for the NWHI.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2001
<b>Reduce Adverse Impacts of Fishing</b>						
<b>Identify and Protect Spawning Aggregations</b>						
1242-06	Hydroacoustic Biomass Assessment of Reef Fish Spawning Aggregations	Anne Marie Eklund	NMFS / Southeast Fisheries Science Center - SEFSC	This project is a continuation of the hydroacoustic biomass stock assessment of fishery resources and grouper spawning aggregations of Puerto Rico and will now add an assessment of USVI fish resources. Species identification is verified using a towable underwater video system and SCUBA. These methods result in the identification of habitats and depths preferred by the target fish species, so that this information is considered in future management actions	Puerto Rico, US Virgin Islands	2003
1052-06	Grouper distribution, habitat characteristics and spawning behavior	Anne Marie Eklund	NMFS / Southeast Fisheries Science Center - SEFSC	This project describes the distribution and abundance of shallow-water groupers in the Florida Keys using acoustic telemetry and GIS. By describing critical spawning and other essential habitat for adult groupers, we are addressing the Local Action Strategy objectives: To assemble fishery-independent data on reef biodiversity; To identify special, sensitive areas that may need enhanced protection; and To collaborate with several entities to avoid duplication of effort.	Florida	2002
1068-06	Assess/monitor effects of MPA status on reef fish populations and spawning aggregations in the Tortugas Ecological Reserves.	Michael Burton	NMFS / Southeast Fisheries Science Center - SEFSC	This project continues to conduct multiple, randomly oriented visual transect surveys on stations in the Tortugas South Ecological Reserves, and on comparable stations inside and outside of the Tortugas North Ecological Reserve, in order to quantify abundance of all snapper and grouper species. Cruises will be conducted in summer months in order to locate spawning aggregations of mutton snapper, and in the winter months in order to locate grouper aggregations of black and yellowfin grouper.	Florida	2002





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<b>Fishing Impacts on Reefs: Impacts of Overfishing and Gear on Reefs</b>						
1069-06	Distribution of trap fishing and effects on habitats in coral reef ecosystems	Ron Hill	NMFS / Southeast Fisheries Science Center - SEFSC	This project is comprehensively examining effects of fish and lobster traps on coral reefs and associated habitats in the Florida Keys, Puerto Rico and the USVI. The overall goal is to reduce destructive fishing practices. This is a cooperative project with local agency and academic partners. We have completed assessments in shallow waters of the FL Keys, the USVI, and Puerto Rico. In FY06, this project expands to remaining coastal areas of Puerto Rico and to deeper waters of the FL Keys and the USVI.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands	2002
1976-06	Analysis of possible overfishing and fishing impacts on reefs of the US Pacific Islands	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	Data provided by the CRED Pacific RAMP project is analyzed to quantify possible local overfishing and fishing impacts on coral reef ecosystems of the US Pacific Islands. Analyses evaluate ecosystem indicators (size spectra and trophic metrics) and secondary data on fishing catch and effort (where available) as well as environmental variables that may confound interpretation of anthropogenic ecosystem impacts. Results will provide the basis for required management alternatives.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, Pacific Other	2005
1873-06	Recovery of conch populations in the U.S. Virgin Islands	Jennifer Doerr	NMFS / Southeast Fisheries Science Center - SEFSC	Conch stocks have been overfished and show little sign of recovery. Our goal is to assess conch population status and provide information for improved management decisions in the USVI. We continue mark and recapture studies, assess habitat selection and availability, track queen conch movements within select embayments, and migration dynamics of adults to spawning locations. In subsequent years current patterns and recruitment will be examined as causes for the lack of recovery.	US Virgin Islands	2005
<b>Fishing Impacts on Reefs: Socioeconomic Studies</b>						
1668-06	Socio-economic profiles of fishing communities in Culebra and Vieques and US Caribbean Fishermen Workshops	Juan Agar	NMFS / Southeast Fisheries Science Center - SEFSC	This project seeks to advance the socio-economic understanding of the harvesting sector by developing detailed profiles of the line and net fisheries in Puerto Rico and in the U.S. Virgin Islands. Building on this body of work, we are also proposing to develop a pilot 'social science' ecosystem management module. The objective of this module is to provide socio-economic framework for the development of ecosystem management plans for the region.	Florida, Puerto Rico, US Virgin Islands	2005
1812-06	Commercial Fishing Panels Florida Keys National Marine Sanctuary	Bob Leeworthy	NOS / Special Projects - SP	This project is part of the Socioeconomic Research and Monitoring Program for the Florida Keys National Marine Sanctuary (FKNMS). FY 2006 funding would be for data collection and reporting for year eight of a monitoring effort initiated in 1998. Four panels of commercial fishermen are monitored for catch, catch distribution and financial performance to monitor socioeconomic impacts of displacement from no-take areas.	Florida	2005
1341-06	A Graphical User Interface for the Geodatabase for Spatial and Socioeconomic Analysis of Recreational Fishing	David Carter	NMFS / Southeast Fisheries Science Center - SEFSC	This project is part of the Socioeconomic Research and Monitoring Program for the Florida Keys National Marine Sanctuary (FKNMS). FY 2006 funding is for data collection and reporting for year eight of a monitoring effort initiated in 1998. Four panels of commercial fishermen are monitored for catch, catch distribution and financial performance to monitor socioeconomic impacts of displacement from no-take areas.	Florida	2004
<b>Fishing Impacts on Reefs: Management Implementation</b>						
1432-06	Hawaii Fisheries Management Local Action Strategy Support	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	To provide support for the implementation of the Hawaii fishery management local action strategy	Hawaii	2004
10010-06	Marine Conservation Program for Indigenous Fishermen of the CNMI	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	There is a need to increase indigenous fishermen's participation in marine resource management activities including monitoring, enforcement and conservation of marine resources. There is also a need to encourage communications between the fishermen and scientists, between the fishermen and enforcement officers, and between fishermen and resource managers. This program will build fishermen's support for and participation in fisheries research and management activities.	Commonwealth of the Northern Mariana Islands	2006



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## Projects funded in FY 2006

Project ID	Project Title	Principal Investigator	NOAA Office	Abstract	Project Location	Project Year of Inception
10039-06	Revision of USVI Marine Regulations for Protection of the Coral Reef Ecosystem	Lisamarie Carrubba	NMFS / Southeast Region - SER	In the USVI, there is a need to limit or reduce fishing effort and improve conservation of fisheries habitat by updating existing 20 plus year old regulations. As a follow-up to FY05 project #1770 to update commercial fishing regulations in the USVI, this project will enable the creation of recreational fishing regulations, which do not currently exist for the USVI and the review and revision of regulations aimed at protecting fisheries habitat.	US Virgin Islands	2006
<b>Fishing Impacts on Reefs: Fisheries Enforcement and Outreach</b>						
10141-06	Community Outreach programs and activities sponsored by NOAA Office for Law Enforcement	Martina Sagapolu	NMFS / Office for Law Enforcement - OLE	NOAA Office for Law Enforcement (OLE) is responsible for monitoring and enforcing existing laws and regulations pertaining to recreational and commercial fishing throughout the Pacific, which represents a significant threat to the coral reef. In order to utilize OLE expertise in promoting resource protection, funds support enforcement-related outreach activities and programs in the territory to raise public awareness of the threats our coral reefs are facing today	American Samoa	2006
10126-06	Community Participatory, Learning, and Action Training Workshop to Enhance, Build, and Promote Environmental Stewardship	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	This project is a continuation of the PLA training workshop that was conducted for village leaders and resource agencies in April 2005. It provides similar training at two village or community sites as a pilot study to address marine resource issues with related topics. This project will produce a Community Action Plan by the community that will outline the activities the community would like to implement as a result of the participatory, learning, and action (PLA) workshop.	American Samoa	2006
10030-06	Hawaii fisheries extension agent	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	The fisheries extension agent is a collaborative project submitted by NMFS (PIRO) and NOS (OCRM) staff in Hawaii. This project is meant to be under both the fisheries and MPA categories. This project assists with Fisheries and MPA related work and NOAA staff in the region have been working closely to develop this project with state and local NGOs.	Hawaii	2006
10025-06	Enhance Enforcement of Guam's Marine Preserves	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	This project will help enhance the enforcement capability of Guam's marine preserves by increasing the infrastructure of Guam's enforcement capabilities and supporting their volunteer enforcement officer program	Guam	2006
10037-06	Educational Materials for Enforcement Officers in USVI	Lisamarie Carrubba	NMFS / Southeast Region - SER	This project is to provide enforcement officers in the USVI with identification guides and other tools for performing their duties related to the protection of coral reef resources, in particular fishery species. In FY06, the project focuses on training officers in the use of species identification keys and the creation of guides for tourists related to what cannot be taken home as a souvenir, such as undersized queen conch shells and pieces of coral.	US Virgin Islands	2006
10044-06	Regulations Biology for Law Enforcement Officers in Puerto Rico	Lisamarie Carrubba	NMFS / Southeast Region - SER	The objective of this project is to promote the conservation of managed species and the coral reef ecosystem by educating law enforcement personnel regarding the biology and importance of managed species and why regulations for their protection exist. The project will also enable the various law enforcement personnel to get to know one another and, hopefully, improve collaboration between agencies.	Puerto Rico	2006
<b>Understand Connectivity, Habitat Utilization, and Essential Fish Habitats</b>						
1317-06	Acoustic seabed classification and quantification of reef fish habitat	Veronique Koch	NMFS / Southeast Fisheries Science Center - SEFSC	This project characterizes essential reef habitat for groupers in the Florida Keys using diver surveys, four types of acoustic mapping, and GIS. This project will give us a thorough examination of the relationship between habitat type and fish distribution, and it should allow us the capability to predict suitable grouper habitat, which should help fisheries management and in planning for marine protected areas in the future.	Florida	2004
1223-06	Larval Transport from coral reef reserves	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	This project utilizes a combination of 1) trace elemental analyses of larval fishes, 2) benthic settlement plates, and 3) upper ocean circulation measurements and numerical modeling to examine recruitment dynamics of larval fishes, corals, algae and other invertebrates with the overall goal of improving the ability of resource managers and policy makers to designate new Marine Protected Areas (MPAs) and evaluate the effectiveness no-take MPAs.	American Samoa, Hawaii, Northwest Hawaiian Islands	2001





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1244-06	Monitoring Coral Reef Fish Utilization of MPAs and Recruitment Connectivity Between the Florida Keys and Meso-American Reefs	John Lamkin	NMFS / Southeast Fisheries Science Center - SEFSC	This project seeks to determine if oceanic connections exist between reefs of Mesoamerica and the Florida Keys for larval reef fish and lobster. Work focuses on using otolith microchemistry, shipboard larval surveys, inshore monitoring of settlement, satellite-tracked drifter trajectories, and larval transport models. Our assessment of the importance of Mesoamerican reefs in replenishing populations along Florida reefs is critical to evaluating and developing effective management practices.	Florida, Latin American/Caribbean	2003
1067-06	Monitoring Coral Reef Fish Utilization of Marine Protected Areas and Inshore Habitats in Florida Bay.	John Lamkin	NMFS / Southeast Fisheries Science Center - SEFSC	Little is known of snapper nursery areas and migration corridors between nursery and reef. Using trace element analysis of otoliths of snapper from the South Florida Ecosystem we characterized a chemical profile for each of five regions that may contribute recruits to the adult population on Florida's reefs. Ultimately we will describe habitat requirements, larval sources, key nursery areas, migratory corridors and seasonality of migrations. All critical to management of marine reserves areas.	Florida	2002
1685-06	Developing site fidelity & essential habitat assessment tools for juvenile snappers in Western Sambo Ecological Reserve, FL.	Bill Richards	NMFS / Southeast Fisheries Science Center - SEFSC	Micro-acoustic telemetry developed for juvenile salmon survivorship is applied to study habitat patterns of juvenile reef-associated snappers in FKNMS. 2005 successful survivorship results indicate that customized micro-acoustic tags with application for small snappers (<150 mm FL) will provide useful tools in determining early life history habitat needs of commercially valuable species. In 2006 we are determining optimal acoustic frequency & range in mangrove, seagrass, and patch-reef habitats.	Florida	2005
1654-06	Reef fish use of coral and mangrove habitats at night and/or under turbid conditions: Application of dual-frequency sonar	Joseph Serafy	NMFS / Southeast Fisheries Science Center - SEFSC	This project applies a newly-developed, dual-frequency sonar system to the problem of quantifying fish abundance in coral reef and mangrove nursery habitats under conditions which preclude standard visual survey techniques. A dual-frequency sonar system is: (1) calibrated under high visibility conditions in coral and mangrove habitats that are occupied by varying quantities of reef fishes; and (2) employed at night and under turbid conditions within the same or similar habitat types.	Florida	2005
9999-06	First International Symposium on Mangroves as Fish Habitat	Joseph Serafy	NMFS / Southeast Fisheries Science Center - SEFSC	This symposium promotes the exchange of ideas, approaches, methods and pertinent data on linkages between mangrove forests and the fishes and fisheries associated with them. Recent research suggests mangroves significantly enhance fish biomass on reefs by providing critical habitats for juvenile and subadult stages. About 150 people are expected to attend; 35 scientists will present papers. Five international experts will lead discussions on the major issues and questions raised.	All regions. This symposium will benefit all mangrove coastlines and associated coral reefs.	2006
<b>Reduce Impacts of Pollution &amp; Coral Disease</b>						
<b>Reduce Marine-Based Sources of Pollution</b>						
1224-06	Marine Debris Survey and Removal from the Northwestern Hawaiian Islands (NWHI): Maintenance Mode	Seema Balwani	NMFS / Pacific Islands Fisheries Science Center - PIFSC	Marine debris remains one of the most pervasive and chronic threats to the nearly pristine coral reef ecosystems of the Northwestern Hawaiian Islands (NWHI). This project follows the successes of a 5 yr large-scale multi-agency NWHI marine debris removal effort that removed over 500 tons of marine debris by determining annual debris accumulation rates and attempting to maintain debris removal rates at similar levels (i.e. keep up with new recruitment of marine debris).	Northwest Hawaiian Islands	2001
<b>Reduce Land-Based Sources of Pollution</b>						
1906-06	State and Territory Capacity Building and Planning Assistance for the Management of Land Based Sources of Pollution	Jennifer Kozlowski	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project addresses the impacts of land-based pollution on coral reefs by providing specialized assistance in watershed assessment, training, and concept design development to help jurisdictions acquire necessary technical knowledge and to establish a programmatic framework for addressing and controlling LBSP. Funds for FY06-08 build on the work currently taking place in USVI, PR, Guam, CNMI and HI and will expand similar assistance in FL and American Samoa.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Guam	2005



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1415-06	Management tools for Land Based Sources of Pollution	Steve Rohmann	NOS / Special Projects - SP	Develop GIS-based tools that use satellite imagery and other data to support the characterization, assessment, and management of land-based sources of pollution on shallow-water coral reef ecosystems. Provide these tools to local coastal zone managers and resource managers to improve conservation and management of terrestrial and shallow-water marine resources. Use these tools to support the assessment of essential fish habitats and impacts of land based sources of pollution.	Puerto Rico, US Virgin Islands	2004
<b>Reduce Impacts of Coral Disease</b>						
1938-06	CDHC: Workshops to Develop Diagnostic Criteria for the Study and Investigation of Biotic and Abiotic Coral Disease Agents	Cheryl Woodley	NOS / National Centers for Coastal Ocean Science - NCCOS	The Coral Disease and Health Consortium (CDHC) will convene workshops to (1) focus on field diagnostic criteria for coral diseases of the Pacific, (2) advanced histopathology to develop a pilot web tool for training and diagnostics, and (3) assess toxicological impacts on coral reefs.	All regions	2005
1939-06	Coral Disease and Health Consortium: Diagnostic Tool Development	Cheryl Woodley	NOS / National Centers for Coastal Ocean Science - NCCOS	Availability of diagnostic indicators, new diagnostic assays and gene sequence information is critically needed to allow faster diagnosis of disease etiologies and a better understanding of genetic mechanisms governing resistance and susceptibility to disease. This project continues building host and microbe DNA sequence databases to support development of reagents, i.e., antibodies, DNA probes and begin new diagnostic assay validation and proteomic investigations.	All regions	2005
1937-06	Coral Disease and Health Consortium: Establishment of Coral Laboratory Model Species for Research	Cheryl Woodley	NOS / National Centers for Coastal Ocean Science - NCCOS	Identify and develop model coral species (analogous to "laboratory rats") that are well characterized, suitable for laboratory culture, and establish a culture facility able to supply model species for scientific research.	All regions	2005
1384-06	Rapid Response Team	Cheryl Woodley	NOS / National Centers for Coastal Ocean Science - NCCOS	Responding to previously identified management needs, the Coral Disease and Health Consortium (CDHC) will establish regional response teams in the Pacific and Indo-Pacific to investigate coral disease outbreaks and mortality events. The teams will have an onsite coordinator, be provided collection kits and receive classroom and field training in standard operating procedures for field investigations. Support is projected for up to two investigations per year.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam	2004
1725-06	Prevalence and impact of coral disease in remote locations	Andy Bruckner	NMFS / Habitat Conservation - HC	This project compares the prevalence, incidence and impact of coral diseases on reefs in the western Atlantic, comparing sites affected by human development (e.g., off mainland Puerto Rico) with more remote reefs including uninhabited islands (Mona Island and Desecheo Island, deeper reefs (Flower Gardens NMS), and dry islands with low population (Bonaire and Curacao).	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, Latin America/Caribbean	2005
1987-06	International Registry of Coral Pathology	Shawn McLaughlin	NOS / National Centers for Coastal Ocean Science - NCCOS	The International Registry of Coral Pathology (IRCP) was established to facilitate development of diagnostic criteria, identification of disease etiologies, and standardization of terminology and descriptive pathology in support of the Coral Disease and Health Consortium (CDHC). IRCP is soliciting and cataloguing specimens of healthy and diseased corals to provide dynamic resources including a reference microslide collection, atlases of coral histology, and a web-accessible database.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, Marshall Islands, Pacific Other	2005
1841-06	Incidence and characterization of coral diseases in the U.S. Pacific Islands	Rusty Brainard	NMFS / Pacific Islands Fisheries Science Center - PIFSC	Coral disease has received little attention on U.S. Pacific reefs. Coral disease needs to be investigated on broad-scales across the Pacific so as to document baseline levels, compare regions, and decipher mechanisms of dispersion. Baseline studies will allow managers to monitor the health of U.S. Pacific reefs by comparing disease types and levels through time. Field surveys and lab examination of collected specimens will be conducted throughout the U.S.-affiliated Pacific Islands in FY06-08.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, U.S. Pacific Remote Island Areas, including Line Islands (Baker, Howland), Phoenix Islands (Jarvis, Palmyra, Kingman), Johnston Atoll, and Wake Atoll.	2005



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<b>Improve Use and Effectiveness of MPAs</b>						
<b>Build and Support Systems and Networks of MPAs</b>						
1693-06	South Atlantic MPAs: Pre-closure evaluation of habitat and fish assemblages in five proposed no fishing zones	Andrew David	NMFS / Southeast Fisheries Science Center - SEFSC	The South Atlantic Fishery Management Council (SAFMC) intends to close several areas along the outer continental shelf for protection of seven reef fish species in late FY-06. A robust study of habitat and fish assemblages within and adjacent to these MPAs will provide an efficacy test of this management tool. Survey initiation prior to the closures will obviate criticisms of MPA studies comparing populations inside and outside closed areas rather than single locations pre and post-closure.	Florida	2005
1428-06	Pacific Islands Marine Protected Area Community	Bill Millhouser	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project supports the follow up actions to the August 2005 Pacific Islands Marine Protected Area Community (PIMPAC) meeting. At this successful first meeting, over 45 Pacific regional MPA managers and practitioners agreed that there is a strong need for PIMPAC and were enthusiastic about continuing efforts to share lessons learned, build partnerships, identify cross cutting issues and look at ways to collectively address those issues.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2004
1794-06	Support for MPA Management Planning in Puerto Rico	Dana Wusinich-Mendez	NOS / Office of Ocean and Coastal Resource Management - OCRM	This 3 year project supports development of community-based management plans for 3 marine Natural Reserves in Puerto Rico. This 06-08 initiative addresses DNER's lack of resources to develop community-based MPAs and the need to carry them through the approval and initial implementation processes.	Puerto Rico	2005
10094-06	American Samoa Marine Protected Area Support	Meghan Gombos	NOS / Office of Ocean and Coastal Resource Management - OCRM	The goal of this project is to build the capacity of Marine Protected Area (MPA) staff at the American Samoa Department of Marine and Wildlife Resources (AS DMWR) and other American Samoa (AS) agency staff to improve MPA management effectiveness. The objectives are to provide training for MPA staff in American Samoa based on capacity strengths and needs.	American Samoa. In the out years these trainings may be offered to other Pacific Islands who also need this assistance.	2006
10053-06	Coral Jurisdiction MPAs Data Verification and Digital Boundary Generation	Joel Murray	NOS / Special Projects - SP	In order to assess the current level of protection of U.S. coral reefs within MPAs this project proposes to verify the accuracy of existing coral jurisdiction data in the Marine Managed Areas Inventory. The project also supports generation of digital boundaries where none are available. Efforts focus on data collection for both Federal and State/Territorial MPAs. The project begins in FY06 with a scheduled completion date at the end of FY07.	Florida, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau	2006
<b>Improve MPA Management Effectiveness</b>						
1062-06	Survey of habitat and fish assemblages in two Marine Reserves on the west Florida shelf	Andrew David	NMFS / Southeast Fisheries Science Center - SEFSC	FY-06 funding for monitoring habitat and reef fish assemblages in the two NE Gulf of Mexico MPAs allows NOAA scientists to track changes in abundance and distribution of reef fish associated with paleo-reef structures in these shelf-edge habitats. Stratified random sampling with stationary digital video camera arrays provides fishery data while habitat information is gathered with an ROV. Annual continuation of the sampling regime is crucial for detecting population changes.	Florida	2002
1830-06	Knowledge, Attitudes and Perceptions of Management Strategies and Regulations in the Florida Keys National Marine Sanctuary	Bob Leeworthy	NOS / Special Projects - SP	This project is part of the Socioeconomic Research and Monitoring Program for the Florida Keys National Marine Sanctuary. The project replicates measurements taken on the knowledge, attitudes and perceptions of proposed Sanctuary management strategies and regulations in 1995-96. Three user groups were included; 1) commercial fishermen, 2) Dive Operators and 3) Members of Environmental Groups.	Florida	2005
10027-06	Guam Resource Conservation and Marine Preserve Outreach	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	Guam Resource Conservation and Marine Preserve Outreach. This project creates outreach materials for the Guam DAWR on resource conservation and marine preserves.	Guam	2006



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10071-06	Establish 2 cooperative agreements between communities and the government to conserve marine ecosystems within their areas	Dana Wusinich-Mendez	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project leads community members and the jurisdiction representatives through a process that will establish cooperative agreements designed to enhance the management of 2 marine natural reserves in Puerto Rico. A multidisciplinary team of lawyers and social scientists lead the effort.	Puerto Rico	2006
10072-06	Socioeconomic Monitoring in Marine Protected Areas of the U.S. Caribbean: Training and Implementation	Christy Loper	NOS / Special Projects - SP	The goal of this project is to increase the capacity of marine protected area (MPA) managers in the U.S. Caribbean (Puerto Rico and U.S. Virgin Islands) to monitor the socioeconomic conditions and impacts associated with protected area management through a targeted training program and monitoring initiative.	Puerto Rico, US Virgin Islands	2006
10022-06	An MPA Retreat: Establishing Coral Reef MPA Managers' Requirements to Guide Integrative Observing System Tool Development	James Hendee	OAR / Atlantic Oceanographic Meteorological Laboratory - AOML	NOAA is increasing emphasis on integrating data for MPA Decision Support. At a meeting in the Bahamas in January, 2005, many leaders in coral reef research met with the manager of the FKNMS to discuss data integration efforts. What is needed now is a similar meeting of MPA managers, but this time to decide upon priorities in management which can hopefully be met by new integrative decision support tools. This project is to help convene the meeting at a new venue.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, Latin American/Caribbean	2006
10041-06	Avoidance and Minimization of Ecosystem Impacts to Coral Reef Marine Protected Areas (MPAs): A Guide for Coastal Developers	Lisamarie Carrubba	NMFS / Southeast Region - SER	This project addresses issues related to coastal development in the area of MPAs. The goal of the project is, through interagency collaboration, to develop a guide for developers regarding the location and importance of MPAs in the U.S. Caribbean, avoidance and minimization measures to be considered during the project planning process, and general information regarding the permitting process. The objective is to promote the wise use of coastal resources.	Puerto Rico, US Virgin Islands	2006
10023-06	CNMI Remote Reef Management Innovation and Support Program	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	This project involves creating a peer-to-peer learning network to improve ability of agencies and communities to better manage remote reefs in the Pacific. Such a learning network would provide partnering and support opportunities for cross-site learning, the piloting of new technology, documenting lessons and technical applications, and developing a forum for enhancement of remote reef management throughout the region	Commonwealth of the Northern Mariana Islands	2006
<b>Conduct Science in Support of MPA Design and Adaptive Management</b>						
1053-06	Modeling effectiveness of marine reserves predicting benefits to coral reef ecosystems	Ron Hill	NMFS / Southeast Fisheries Science Center - SEFSC	Trophic models are useful in addressing ecosystem-based fishery management issues. This project develops trophic models of reef ecosystems to examine effects of overfishing and understand impacts of coral reef marine reserves in Puerto Rico. A generalized Caribbean reef model has been completed to date. We examine the model sensitivity to variations in input parameters through simulation exercises, and complete model development for the reserve at the Turromote Reef Platform.	Puerto Rico, US Virgin Islands	2002
10007-06	Performance Evaluation of Marine Zoning in the Florida Keys National Marine Sanctuary	Brian Keller	NOS / Office of National Marine Sanctuaries - ONMS	The FKNMS has prioritized evaluating spiny lobster and snapper/grouper as critical to understanding effects of marine zoning. This project uses a multi-tiered approach to evaluate FKNMS MPAs. Lobsters are resurveyed following a decade of protection. Movement of sonic-tagged lobsters and fish in Western Sambo Ecological Reserve (WES) across the southern offshore boundary are tracked and advice provided regarding the WES boundary and the establishment of coral reef MPAs.	Florida	2006
2068-06	Improving the Effectiveness of Coral MPAs through the Analysis and Synthesis of Coral Thermal Stress and Decline	Kenneth Casey	NESDIS / National Oceanographic Data Center	Increasing ocean temperatures related to climate change have resulted in more coral bleaching and are believed to exacerbate coral diseases. Pathfinder sea surface temperatures (SST) from the last 20 years are used to examine changes in frequency, extent, and severity of thermal stress events. This information is coupled with in situ surveys to improve marine protected area (MPA) effectiveness by developing scientific understandings of how thermal stresses are related to coral decline.	Florida	2006



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<b>Reduce Threats to International Coral Reefs</b>						
<b>General International</b>						
1040-06	Global Socioeconomic Monitoring Initiative Coordination	Steve Morrison	NOS / International Programs - IPO	The Global Socioeconomic Monitoring Initiative (SocMon), which is part of the Global Coral Reef Monitoring Network, is a world-wide program to increase coral reef managers' capacity to understand and incorporate socioeconomics into management programs. The project conducts global-level coordination activities, including development of a global database, facilitation of region-level programs, website development, and development of the socioeconomic component for Status of the Reefs reports.	East Africa, East Asia/South East Asia, Latin America/Caribbean, Middle East/Indian Ocean, Pacific Other	2002
1767-06	COREMO III Database Training for Global Coral Reef Monitoring Network	Scot Frew	NOS / International Programs - IPO	This project will train national database managers in Micronesia, Melanesia and Polynesia on the use of the COREMO III database and the mechanisms for transferring data to the global database and for report writing to produce national and regional status of coral reefs reports. The project is a cooperative venture between the GCRMN, ReefBase and Reef Check, with NOAA involved in the planning phases and eventually for the use in US associated states.	Commonwealth of the Northern Mariana Islands	2005
1576-06	Integrated Coral Observing Network (ICON, formerly CREWS) Station Support for Little Cayman Research Center, Cayman Islands	James Hendee	OAR / Atlantic Oceanographic Meteorological Laboratory - AOML	The Little Cayman Research Centre (LCRC) is a project of the International non-profit Central Caribbean Marine Institute. CCMI is a US, UK and Cayman Islands non profit based in Princeton NJ. Although the LCRC project has significant leveraging support for construction and installation of a monitoring station, funds are lacking to provide for swap-out during instrument calibrations and replacement in the event of vandalism, breakage and/or storm damage.	Latin America/Caribbean	2005
10189-06	International Caribbean Bleaching Response	Scot Frew	NOS / International Programs - IPO	N/A	Latin America/Caribbean	2006
2148-06	Regional Model for sustainable use of humphead wrasse	Nancy Daves	NMFS / Protected Resources - PR	The humphead wrasse was recently listed in CITES Appendix II. The project provides a model for findings of non-detriment (NDF), required by CITES. Steps include collecting information on humphead wrasse in Indonesia; developing a process for the NDF; establishing a monitoring scheme for trade; gaining support of the Indonesian government for use of the model; developing a consumer awareness campaign on the species and convening a workshop of key countries to share the NDF process.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, Marshall Islands, Palau, East Asia/South East Asia	2006
1791-06	Workshop: Conservation and Sustainable Use of Coral Reefs and Associated Habitats in the Mayan Riviera, Mexico	Maria Bello	NMFS / Southeast Fisheries Science Center - SEFSC	The Mayan Riviera (Mexican Caribbean) has one of the fastest tourism growth rates in the world. It contains part of the Meso-American Barrier Reef. Uncontrolled tourism development threatens its coral reefs and associated habitats. This workshop focuses on capacity building for local scientists, managers, government officials and tourism developers, to ensure the conservation and sustainable use of mangroves, seagrass and coral reefs within an integrated coastal zone management plan	Latin America/Caribbean	2005
1158-06	Global Coral Disease Database	Andy Bruckner	NMFS / Habitat Conservation - HC	This project updates the Global Coral Disease Database with new records obtained from publications, researcher submissions and monitoring programs. Database updates include: a prototype IMAPS mapping tool which enables search of data by disease name and year, zoom capabilities, and full information sheet for each line of data; a new tool to allow researchers to enter data online; standardization of nomenclature based on the CDHC diagnostics work.	All regions. The database compiles global records for coral diseases.	2003
10038-06	Acropora spp. monitoring in the eastern Caribbean	Margaret Miller	NMFS / Southeast Fisheries Science Center - SEFSC	This project implements demographic monitoring of Acropora spp., with focus on Acropora palmata, in several locations in the Eastern Caribbean. This monitoring is accomplished via a highly leveraged partnership with Sea-mester, a semester-at-sea educational program that traverses the Eastern Caribbean twice per year in the 88ft sailing schooner, S/Y Ocean Star.	Latin America/Caribbean	2006





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<b>Reduce Impacts of International Trade</b>						
2076-06	Developing a sustainable trade in maricultured corals	Andy Bruckner	NMFS / Habitat Conservation - HC	The trade in stony corals has increased by 300% since the late 1980s with around 1 million corals in trade each year. Over the last two years a growing volume of maricultured corals has become available, but no standards have been developed to ensure that mariculture practices are sustainable. This project involves a workshop in the south Pacific to bring together all stakeholders involved in the coral trade to develop best practices for coral mariculture.	East Asia/South East Asia, Pacific Other	2006
<b>Address Emerging Issues</b>						
2160-06	Acropora Implementation Issues	Jennifer Moore	NMFS / Southeast Region - SER	The proposed listing of <i>Acropora cervicornis</i> and <i>A. palmata</i> as threatened under the Endangered Species Act (ESA) has created the need for many new initiatives within FY06 and the following 2 fiscal years. This is the first ever proposed listing of a coral species and will require outreach and education, development of specific conservation activities, prohibited actions and recovery strategies, and coordination with stakeholders.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands	2006
1055-06	Assessment of Candidate Corals	Margaret Miller	NMFS / Southeast Fisheries Science Center - SEFSC	This project involves monitoring of Caribbean <i>Acropora</i> spp. and their threats (e.g. disease and predators) in the Florida Keys to assess recovery potential. Other project components are pursuing research goals related to applying genetic tools to field studies on colony performance, disease incidence and transmission, thus addressing priority areas for monitoring, conservation and recovery of species of ESA concern.	Florida	2002
<b>Program Coordination</b>						
<b>Headquarters Coordination</b>						
1452-06	NOAA Coral Reef Conservation Program Coordination	David Kennedy	NOS / Office of Ocean and Coastal Resource Management - OCRM	This funding supports coordination of the NOAA Coral Reef Conservation Program.	All regions	2004
10187-06	CRCP Regional Workshops, CREIOS Review, and External Program Review	David Kennedy	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project designs, implements and completes external reviews of (1) the Coral Reef Conservation Program (CRCP) and (2) the Coral Reef Ecosystem Integrated Observing System (CREIOS) component of the CRCP. Information from the reviews will be used to help identify priorities, key requirements and future direction for CRCP and CREIOS.	All regions	2006
1192-06	NOAA Coral Reef Conservation Program Communications, Outreach and Education Coordination	Alissa Barron	NOS / Office of Ocean and Coastal Resource Management - OCRM	The CRCP has been funding national coordination of communications, outreach and education since FY01. National coordination funds are used for national-level communications, public relations, outreach, and education, as well as to facilitate, support, and enhance outreach and education efforts in the program regions.	All regions	2003
1442-06	NOAA Fisheries Coral Reef Program Coordination	Thomas Hourigan	NMFS / Habitat Conservation - HC	The NMFS Coral Reef Program Coordination provides overall coordination for the NOAA Fisheries components of the NOAA Coral Reef Conservation Program and leadership on NOAA's Deep Coral activities.	All regions	2004
1171-06	U.S. Coral Reef Task Force Support	Roger Griffis	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project supports key measures outlined in resolutions passed by the U.S. Coral Reef Task Force to strengthen its ability to implement the National Action Plan.	All regions	2003
1204-06	All Islands Coral Reef Secretariat	Dana Wusinich-Mendez	NOS / Office of Ocean and Coastal Resource Management - OCRM	This project provides continued funding support for the All Islands Group Secretariat, to assist in the coordination of national and All Islands' activities and initiatives.	All regions	2003
1919-06	Support for 2008 International Coral Reef Symposium	Roger Griffis	NOS / Office of Ocean and Coastal Resource Management - OCRM	The US will serve as the host of the 2008 International Coral Reef Symposium. The meeting will be held in Florida. NOAA has committed to helping fund the meeting.	All regions	2005
<b>Field Office Coordination</b>						
1142-06	Support Local Action Strategies, Management and Administration of Coral Reef Conservation Program Activities	Lisamarie Carrubba	NMFS / Southeast Region - SER	This project supports coordination for NMFS coral reef conservation activities in the U.S. Caribbean and broader NOAA CRCP collaboration with Territory and Commonwealth management agencies and the CFMC. Funds provides for a coral reef and administrative position to provide oversight of ongoing and future projects in the U.S. Caribbean and Florida, support LAS, and to facilitate the identification, implementation and management of activities to restore and conserve coral reef ecosystems.	Florida, Puerto Rico, US Virgin Islands	2001





# NOAA Coral Reef Conservation Program

[www.coralreef.noaa.gov](http://www.coralreef.noaa.gov)

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## Projects funded in FY 2006

Project ID	Project Title	Principal Investigator	NOAA Office	Abstract	Project Location	Project Year of Inception
1752-06	Support Federal Navigator and LAS Overfishing Activities in the U.S. Caribbean	Lisamarie Carrubba	NMFS / Southeast Region - SER	This project provides support for the Federal Navigator for the LAS Overfishing theme for both PR and USVI. Funds enable travel for the Federal Navigator to determine priority projects in both Puerto Rico and the U.S. Virgin Islands in the Overfishing theme in coordination with other Federal and Local Navigators. The majority of the funds are used to fund contracts for the completion of small dollar value priority projects in each area.	Puerto Rico, US Virgin Islands	2005
1250-06	Data Management, Assessment and Outreach	Theophilus Brainerd	NMFS / Southeast Fisheries Science Center - SEFSC	This project coordinates and supports SEFSC's CR projects within the National Coral Reef Program, provides links between scientists, regional partners and HQ, prepares and responds to all data reporting and management requirements and supports the USCRTF meetings. This project supports the FY06 NOAA CRCP Coral Reef Ecosystems Integrated Observing System (CREIOS) internal and external review process.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands	2003
10047-06	National Coral Reef Ecosystem Monitoring Program (Non-Grant)	Mark Monaco	NOS / National Centers for Coastal Ocean Science - NCCOS	This project provides resources for support of the staff and activities necessary to coordinate CRCP's National Coral Reef Ecosystem Monitoring Program and to foster and improve collaboration with jurisdictional partners. Proposed are program management activities, including: grants administration/processing, data transmission, partnership development, and continuous activities associated with crafting periodic 'State of the Reefs' reports, including product delivery to CoRIS.	Florida, Flower Garden Banks, Puerto Rico, US Virgin Islands, American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Marshall Islands, Guam, Palau	2006
10134-06	Pacific Islands Coral Reef Coordination ( PIFSC CRED)	Seema Balwani	NMFS / Pacific Islands Fisheries Science Center - PIFSC	The Pacific Islands Coral Reef Coordination funding provides for 3 FTEs to manage the Coral Reef Ecosystem Division of the Pacific Islands Fisheries Science Center: Division Chief, Management and Program Analyst, and Operations Research Analyst. Together, the Management Team ensures that CRED is effective in conducting a research program while fulfilling its reporting requirements.	American Samoa, Hawaii, Northwest Hawaiian Islands, Commonwealth of the Northern Mariana Islands, Guam, Pacific Other: US Pacific Remote Island Areas, Wake Island, Johnston Atoll	2006
1260-06	NMFS Pacific Islands Regional Coral Coordinators	Alan Everson	NMFS / Pacific Islands Regional Office - PIRO	Incumbents serve as the NMFS liaison for coral reef management issues in Guam, American Samoa and the Commonwealth of the Northern Marianas (CNMI) and support implementation for the fishery management local action strategies (LAS) in each of these areas. They report directly to the Pacific Islands Regional Office (PIRO) Habitat Conservation Division (HCD). Responsibilities also include working with other federal and local resource agencies on coral reef management issues.	American Samoa, Hawaii, Commonwealth of the Northern Mariana Islands, Guam	2004